

1 This listing of claims replaces all prior versions and listings:

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3 **Listing of Claims:**

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5 1. (Currently Amended) A computer-readable medium having
6 computer-executable components for controlling a hardware device of a given
7 device type installed in a computer system, comprising:

8 a first device driver for interacting with, through a device driver interface,
9 an application running on the computer system; and

10 a second device driver programmed to support entry point functions
11 corresponding to a pre-selected set of operation commands generic to different
12 device models and brands of the given device type and capable of translating the
13 pre-selected set of operation commands generic to the given device type into
14 operation commands specific to the hardware device, the entry point functions
15 callable by the first device driver for controlling operations of the hardware
16 device,

17 the first device driver programmed for receiving, through the device driver
18 interface, a request from the application for a requested operation by the hardware
19 device, setting parameters associated with the requested operation, and calling,
20 with the parameters, the entry point functions of the second device driver to
21 control the hardware device to perform the requested operation, wherein the first
22 device driver is not required to have knowledge of the operation commands
23 specific to the hardware device.

1 2. (Currently Amended) A computer-readable medium as in claim 1, ~~where~~
2 in wherein the hardware device is an image-capturing device.

3
4 3. (Original) A computer-readable medium as in claim 2, wherein the
5 hardware device is a flatbed scanner.

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7 4. (Original) A computer-readable medium as in claim 3, wherein the
8 requested operation is a scan operation.

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10 5. (Currently Amended) A computer-readable medium as in claim 4,
11 wherein the entry point functions are supported by the second server device driver
12 and are callable to set parameters for the scan operation, and to initiate the scan
13 operation.

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15 6. (Currently Amended) A computer-readable medium as in claim 1,
16 wherein the first device driver is further programmed to pass to the second device
17 driver a data structure for storing ~~operation parameter settings by the second~~
18 ~~device driver~~ the parameters associated with the requested operation.

19
20 7. (Currently Amended) A computer-readable medium as in claim 1,
21 wherein the computer-executable components further ~~includes~~ comprise a third
22 device driver for a second hardware device, the third device driver programmed to
23 interact with the application through the device driver interface for receiving
24 requests for operations by the second hardware device and to control the second
25 hardware device to perform the requested operations.

1 8. (Currently Amended) A computer readable medium having computer-
2 readable instructions for controlling a hardware device of a given device type
3 installed in a computer system to perform operations in response to requests by an
4 application running on the computer system, the computer-readable instructions
5 performing a method comprising:

6 passing, through a device driver interface to a first device driver, a request
7 from the application for a requested operation by the hardware device;

8 calling, by the first device driver, a second device driver through entry
9 point functions of the second device driver, the entry point functions
10 corresponding to a pre-selected set of operation commands generic to different
11 device models and brands of said given device type, and controlling, by the second
12 device driver in response to the calling of the entry point functions by the first
13 driver and translating the pre-selected set of operation commands into operation
14 commands specific to the hardware device, the hardware device to perform the
15 requested operation,

16 wherein the entry point functions perform actions including setting
17 parameters of the requested operation and initializing the requested operation and
18 the first device driver is not required to have knowledge of the operation
19 commands specific to the hardware device.

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21 9. (Original) A computer-readable medium as in claim 8, wherein the step
22 of calling includes passing a data structure to the second device driver for storing
23 operation parameter settings by the second device driver.
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1 10. (Original) A computer-readable medium as in claim 9, wherein the
2 hardware device is an image-capturing device.

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4 11. (Original) A computer-readable medium as in claim 10, wherein the
5 hardware device is a flatbed scanner.

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7 12. (Currently Amended) A computer system comprising:
8 a hardware device of a given type;
9 an operating system having a device driver interface and a plurality of
10 device drivers, including a first device driver and a second device driver
11 cooperating to operate the hardware device, the second device driver being written
12 for the hardware device and implementing entry point functions callable by the
13 first device driver to control operations of the hardware device, the entry point
14 functions corresponding to a pre-selected set of operation commands generic to
15 different device models and brands of said given device type and capable of
16 translating the pre-selected set of operation commands generic to said given
17 device type into operation commands specific to the hardware device, the first
18 device driver programmed for receiving, through the device driver interface of the
19 operating system, a request from an application running on the computer system to
20 perform a requested operation by the hardware device, setting parameters
21 associated with the requested operation, and calling, with the parameters, the entry
22 point functions of the second device driver to control the hardware device to
23 perform the requested operation, wherein the first device driver is not required to
24 have knowledge of the operation commands specific to the hardware device.
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1 13. (Currently Amended) A ~~computer-readable medium~~ computer system
2 as in claim 12, wherein the hardware device is an image-capturing device.

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4 14. (Currently Amended) A ~~computer-readable medium~~ computer system
5 as in claim 13, wherein the hardware device is a flatbed scanner, and the requested
6 operation is a scan operation.

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8 15. (Currently Amended) A ~~computer-readable medium~~ computer system
9 as in claim 14, wherein the entry point initiating the scan operation.

10
11 16. (Currently Amended) A method of controlling a hardware device of a
12 given device type installed in a computer system, comprising:

13 interacting, by a first device driver not required to have knowledge of
14 operation commands specific to the hardware device, with an application running
15 on the computer system through a device driver interface to receive from the
16 application a request for performing a requested operation by the hardware device;
17 setting parameters associated with the requested operation; and

18 calling, by the first device driver and with the parameters, entry point
19 functions of a second device driver capable of translating a pre-selected set of
20 operation commands generic to different device models and brands of the given
21 device type into operation commands specific to the hardware device to control
22 the hardware device to perform the requested operation, the entry point functions
23 corresponding to [[a]] the pre-selected set of operation commands generic to the
24 different device models and brands of the given device type and callable by the
25 first device driver for controlling operations of said hardware device.

1 17. (Original) A method as in claim 16, where in the hardware device is an
2 image-capturing device.

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4 18. (Original) A method as in claim 17, wherein the image-capturing
5 device is a flatbed scanner.

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7 19. (Original) A method as in claim 18, wherein the requested operation is
8 a scan operation.

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10 20. (Currently Amended) A method as in claim 19, wherein the entry point
11 functions ~~supported by~~ of the second server device driver are callable to set
12 parameters for the scan operation, and to initiate the scan operation.

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14 21. (Currently Amended) A method as in claim 16, further including the
15 step of passing to the second device driver a data structure for storing operation
16 ~~parameter settings by the second device driver~~ parameters associated with the
17 requested operation.